

Comparisons of Job Characteristics

Focus Occupation: [Medical and Clinical Laboratory Technicians \(29-2012\)](#)

Associated Occupation: [Dental Laboratory Technicians \(51-9081\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 39

Focus Occupation: Medical and Clinical Laboratory Technicians (29-2012)

Associated Occupation: Dental Laboratory Technicians (51-9081)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Design	5.2	11.7	2.9	<< Extensive education and/or training may be required
Medicine and Dentistry	3.7	11.5	12.8	> Current knowledge level is likely sufficient
Production and Processing	6.0	11.2	8.3	<< Extensive education and/or training may be required
Mechanical	6.8	9.9	11.4	> Current knowledge level is likely sufficient
Chemistry	4.8	7.8	17.5	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 61

Focus Occupation: Medical and Clinical Laboratory Technicians (29-2012)

Associated Occupation: Dental Laboratory Technicians (51-9081)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Quality Control Analysis	5.9	10.1	8.9	< A higher skill level may be required
Operation and Control	5.4	8.3	7.1	< A higher skill level may be required
Equipment Selection	3.3	5.9	6.4	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Medical and Clinical Laboratory Technicians (29-2012)**Associated Occupation: Dental Laboratory Technicians (51-9081)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Near Vision	11.1	14.2	12.3	<	Some improvement in abilities may be required
Finger Dexterity	7.6	14.1	11.0	<<	Extensive improvement in abilities may be required
Control Precision	6.6	12.6	9.1	<<	Extensive improvement in abilities may be required
Arm-Hand Steadiness	6.8	12.0	10.0	<	Some improvement in abilities may be required
Visualization	7.5	10.7	7.6	<<	Extensive improvement in abilities may be required
Wrist-Finger Speed	3.2	5.4	5.2	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 56

Focus Occupation: Medical and Clinical Laboratory Technicians (29-2012)**Associated Occupation: Dental Laboratory Technicians (51-9081)**

Work Activities	Exclusivity of Activity
Mix paint, ingredients, or chemicals, according to specifications	35
Understand technical operating, service or repair manuals	6
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 53

Focus Occupation: Medical and Clinical Laboratory Technicians (29-2012)**Associated Occupation: Dental Laboratory Technicians (51-9081)**

Tools and Technologies	Exclusivity
Autoclave and sterilizer equipment and accessories	12
Computer printers	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Finance accounting and enterprise resource planning ERP software	2
Indicating and recording instruments	2

Information exchange software	1
Laboratory heating and drying equipment	13
Laboratory mixing and stirring and shaking equipment and supplies	19
Laboratory pumps and tubing	23
Length and thickness and distance measuring instruments	2
Test Tubes	26
Tissue culture and high throughput screening supplies	31
Viewing and observing instruments and accessories	4
Weight measuring instruments	7

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.